

Notice of Allowability

Application No.

10/781,324

Applicant(s)

ACKER ET AL.

Examiner

Art Unit

TAN Q. NGUYEN

3661

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 02/18/2004.
2. ☒ The allowed claim(s) is/are 1-5.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☒ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 02/18/2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


TAN Q. NGUYEN
PRIMARY EXAMINER

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

1. This communication is an Examiner's reasons for allowance in response to application filed on February 18, 2004, assigned serial 10/781,324 and titled "METHOD FOR INFLUENCING THE ROLL BEHAVIOR OF MOTOR VEHICLES".

2. The following is the Examiner's statement of reasons for the indication of allowable subject matter:

a. After carefully reviewing the application in light of the prior art of record, the amended claims and additional search of all the possible areas relevant to the present application, a set of related prior art references has been found, but those prior art references are not deemed strong to make the application unpatentable. Thus, it is found that the application is now in condition for allowance.

b. Although the prior art disclose several claimed limitations, none of the references teaches a method for influencing the roll behavior in motor vehicles which includes the steps of measuring a steering wheel angle, calculating the traveling speed based on the wheel speed, a transverse acceleration, determining the engine speed from at least one of measurement made at the drive engine and engine-typical measurement data and characteristic diagrams, calculating the theoretical transverse acceleration from the steering wheel angle and the traveling speed, calculating a roll momentum distribution, determining the actuator forces from the transverse acceleration and a roll momentum distribution, and controlling the supply of energy to the actuators, comparing the theoretical transverse acceleration with a threshold value, the actuators being inactive until the threshold value is reached, and when the threshold value is exceeded, determining the difference between the theoretical transverse acceleration and the measurement transverse acceleration, comparing such difference

Art Unit: 3661

with a differential threshold value, the calculated transverse acceleration being used as the momentary transverse acceleration until the differential threshold value is reached and when the differential threshold value is exceeded, the measured transverse acceleration is used as the momentary transverse acceleration, determining a roll momentum distribution for a predefined normal traveling state range as a function of the rotational speed, the momentary transverse acceleration and a change in the drive torque, comparing the rotational speed, the current transverse acceleration and the change in the drive torque with corresponding threshold values, the first translated roll momentum distribution being used as the momentary roll momentum distribution until the threshold values are reached, and when at least two of the aforesaid threshold values are exceeded, a new current roll momentum distribution is calculated, calculating the actuator forces of the actuators as function of the momentary transverse acceleration and the current roll momentum distribution, and calculating a start up acceleration or a braking deceleration from the rotational speed of the axle wheels, from the engine torque, from the gear speed, from the current spring compressions at the front and rear axles and from the steering wheel angle (claim 1).

c. Claims 1-5 are allowable over the prior art of record.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Tan Nguyen, whose telephone number is (703) 305-9755. The examiner can normally be reached on Monday-Thursday from 5:30 AM-4:00 PM

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black, can be reached on (703) 305-8233.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Art Unit: 3661


or faxed to the Central Fax:

(703) 872-9306, (for informal or draft communications, please label
"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park V, 2451 Crystal Drive,
Arlington, VA., Seventh Floor (Receptionist).

Information regarding the status of an application may be obtained from the
Patent Application Information Retrieval (PAIR) system. Status information for
published applications may be obtained from either Private PAIR or Public PAIR.
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For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should
you have questions on access to the Private PAIR system, contact the Electronic
Business Center (EBC) at 866-217-9197 (toll-free).

/tqn
February 3, 2006


TAN Q. NGUYEN
Primary Examiner
Art Unit 3661